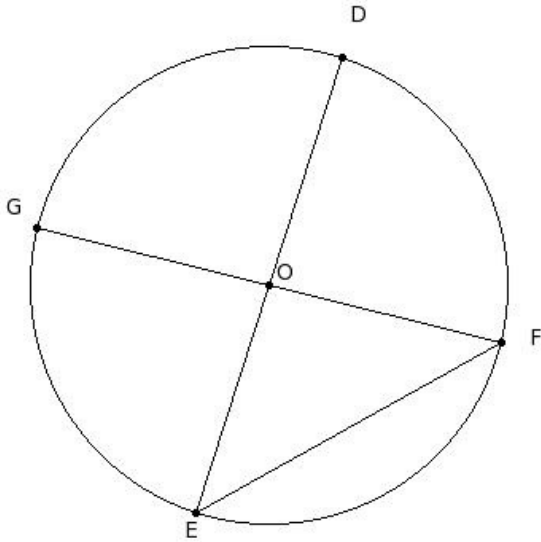




1. A line segment joining any point on the circle with its centre is called
(i) segment (ii) centre (iii) major segment (iv) semi-circle (v) radius

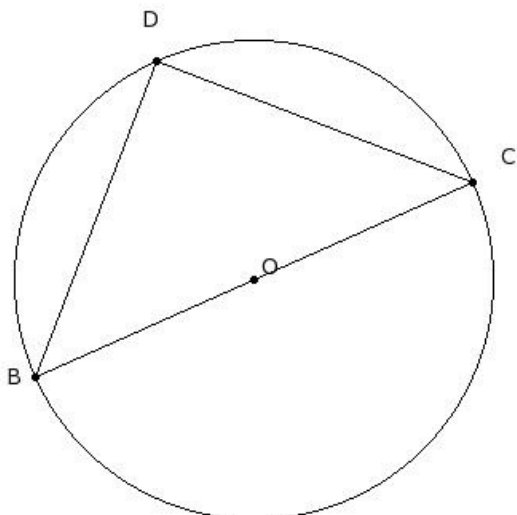
2. In the given figure, DE & FG are diameters of the circle. If $\angle DEF = 43^\circ$ find, $\angle EOF$



- (i) 94° (ii) 109° (iii) 99° (iv) 124° (v) 104°

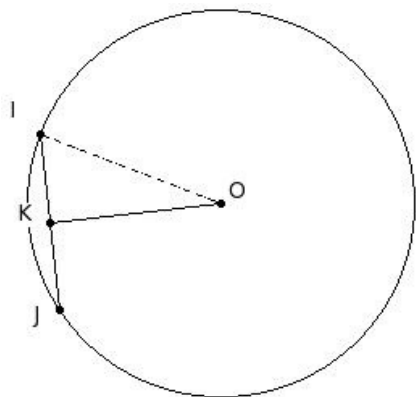
3. Half of a circle is called
(i) centre (ii) radius (iii) diameter (iv) circumference (v) semi-circle

4. In the given figure BD & CD are equal length chords of the circle. Find $\angle DBC$



- (i) 55° (ii) 45° (iii) 75° (iv) 60° (v) 50°

5. If a chord $IJ = 11$ cm is drawn in a circle with radius $OI = 12$ cm, find its distance from the centre of the circle



- (i) 11.67 cm (ii) 9.67 cm (iii) 10.67 cm (iv) 12.67 cm (v) 8.67 cm

6. In triangle GHI , if a circle is drawn with HI as diameter and if it passes through G it is a

- (i) acute angled triangle (ii) obtuse angled triangle (iii) right angle triangle (iv) equilateral triangle

7. Which of the following statements are true?

- a) A radius is a limiting case of a diameter.
- b) A tangent is the limiting case of a secant.
- c) A secant and a chord are same.
- d) A diameter is a limiting case of a chord.
- e) A secant has two end points.

- (i) {b,d} (ii) {c,d,b} (iii) {e,a,b} (iv) {a,b} (v) {c,d}

8. A line which touches a circle at only one point is called a

- (i) secant (ii) tangent (iii) quadrant (iv) diameter (v) chord

9. The point of intersection of the angular bisectors of a triangle is

- (i) circumcentre (ii) centroid (iii) excentre (iv) orthocentre (v) incentre

10. If the two radii OP and OQ of a circle are at right angles to each other, then the sector OPQ is called a

- (i) centre (ii) circumference (iii) major segment (iv) quadrant (v) secant

11. Which of the following statements are true?

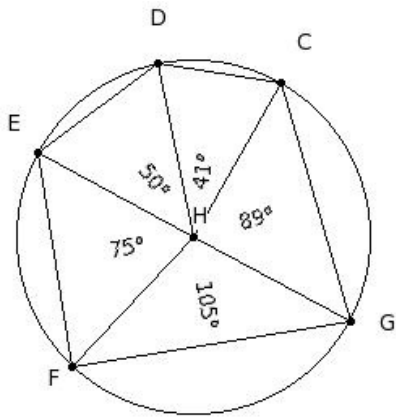
- a) Every circle has a unique diameter.
- b) An infinite number of chords may be drawn for a circle.
- c) An infinite number of diameters may be drawn for a circle.
- d) Two semi-circles of a circle together make the whole circle.
- e) One and only one tangent can be drawn to a circle from a point outside it.

- (i) {a,e,d} (ii) {b,c,d} (iii) {a,b} (iv) {a,b,c} (v) {e,c}

12. GH , IJ , KL , MN are chords of a circle with $GH = 7$ cm, $IJ = 1$ cm, $KL = 6.2$ cm and $MN = 4.08$ cm. The chord farthest from the centre of the circle is

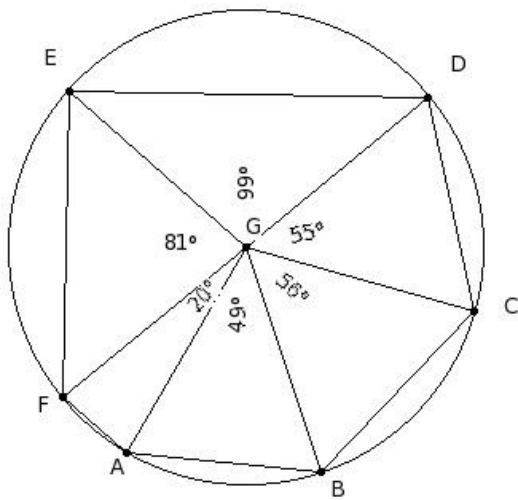
- (i) $GH = 7$ cm (ii) $KL = 6.2$ cm (iii) $MN = 4.08$ cm (iv) $IJ = 1$ cm

13. The chords of the circle are



- (i) $\overline{CD}, \overline{DE}, \overline{EF}, \overline{FG}, \overline{GC}$ (ii) $\overline{DE}, \overline{EF}, \overline{FG}, \overline{GC}$ (iii) $\overline{CD}, \overline{DE}, \overline{EF}, \overline{FG}, \overline{GC}, \overline{HE}$ (iv) $\overline{HC}, \overline{HD}, \overline{HE}, \overline{HF}, \overline{HG}$
 (v) $\overline{CD}, \overline{DE}, \overline{EF}, \overline{FG}, \overline{GC}, \overline{EG}$

14. The radii of the circle are



- (i) $\overline{AB}, \overline{BC}, \overline{CD}, \overline{DE}, \overline{EF}, \overline{FA}, \overline{DF}$ (ii) $\overline{BC}, \overline{CD}, \overline{DE}, \overline{EF}, \overline{FA}$ (iii) $\overline{AB}, \overline{BC}, \overline{CD}, \overline{DE}, \overline{EF}, \overline{FA}$
 (iv) $\overline{AB}, \overline{BC}, \overline{CD}, \overline{DE}, \overline{EF}, \overline{FA}, \overline{GC}$ (v) $\overline{GA}, \overline{GB}, \overline{GC}, \overline{GD}, \overline{GE}, \overline{GF}$

15. The angle subtended by the diameter at any point on the circle is

- (i) 105° (ii) 100° (iii) 90° (iv) 120° (v) 95°

16. Which of the following figures represent a tangent ?

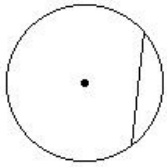


fig I

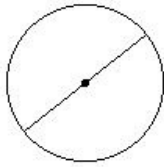


fig II

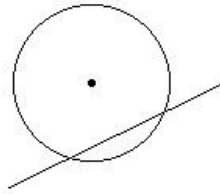


fig III

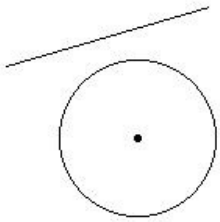


fig IV

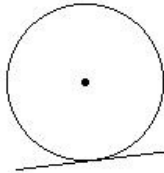


fig V

(i) fig I (ii) fig IV (iii) fig V (iv) fig III (v) fig II

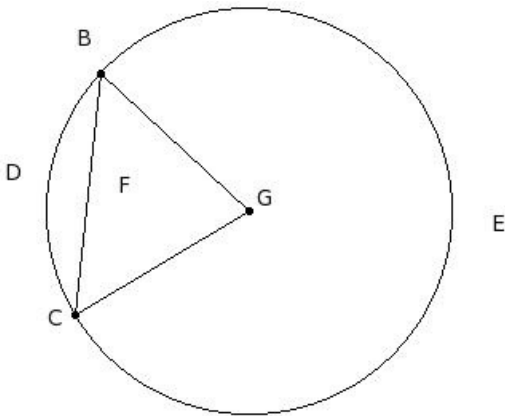
17. If two circles are concentric, then

- (i) their diameters are same
- (ii) their radii are same
- (iii) their perimeters are same
- (iv) their centres are same

18. The angle subtended by the semicircle at the centre is

- (i) 185°
- (ii) 190°
- (iii) 180°
- (iv) 195°
- (v) 210°

19. The major arc of the circle is



- (i) GBECG
- (ii) BEC
- (iii) BDCFB
- (iv) GBDCG
- (v) BECFB

20. Which of the following statements are true?

- a) Atmost one chord can be drawn on a circle with a certain length.
- b) The diameter is the longest chord.
- c) A chord divides a circle into two sectors.
- d) A chord divides a circle into two segments.
- e) The radius is the shortest chord.

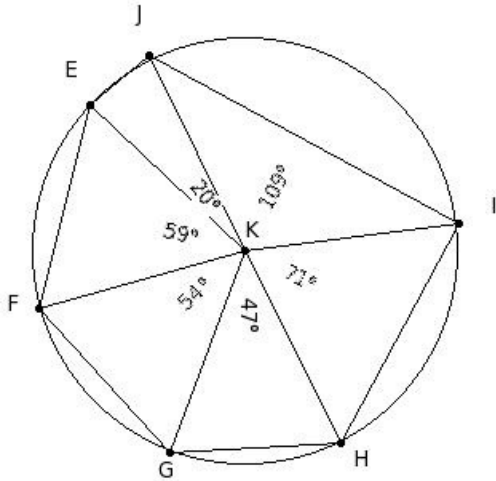
- (i) {a,b}
- (ii) {c,d}
- (iii) {b,d}
- (iv) {c,d,b}
- (v) {e,a,b}

21. Which of the following statements are true?

- a) A circle divides the plane into three mutually disjoint sets of points.
- b) All chords of a circle are diameters.
- c) $\frac{22}{7}$ is a rational number.
- d) π is a rational number.
- e) All diameters of a circle are chords.

- (i) {d,c} (ii) {a,c,e} (iii) {b,d,e} (iv) {b,a} (v) {b,a,c}

22. The diameters of the circle are

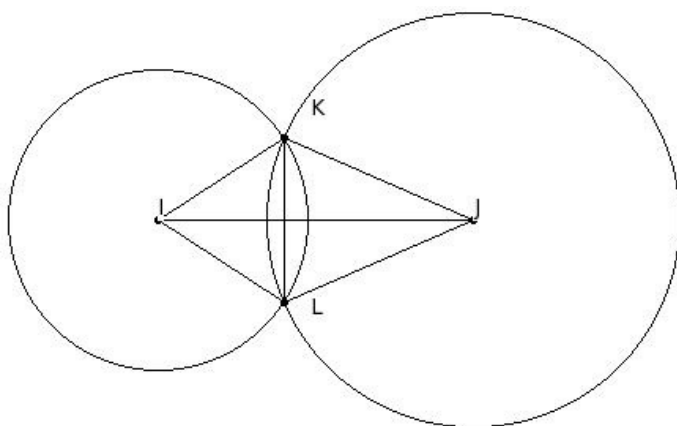


- (i) $\overline{KE}, \overline{KF}, \overline{KG}, \overline{KH}, \overline{KI}, \overline{KJ}$ (ii) $\overline{EF}, \overline{FG}, \overline{GH}, \overline{HI}, \overline{IJ}, \overline{JE}, \overline{HJ}$ (iii) $\overline{EF}, \overline{FG}, \overline{GH}, \overline{HI}, \overline{IJ}, \overline{JE}$
 (iv) $\overline{KE}, \overline{KF}, \overline{KG}, \overline{KH}, \overline{KI}, \overline{KJ}, \overline{HJ}$ (v) \overline{HJ}

23. The distance around the circle is called

- (i) radius (ii) chord (iii) arc (iv) circumference (v) diameter

24. In the given figure, two circles of radii $IK = 9.5$ cm & $JK = 13.1$ cm intersect at K & L. The distance between the centres $IJ = 20$ cm, find the length of KL



- (i) 9.35 cm (ii) 12.35 cm (iii) 8.35 cm (iv) 11.35 cm (v) 10.35 cm

25. A chord that passes through the centre of the circle is called

- (i) major segment (ii) semi-circle (iii) circumference (iv) centre (v) diameter

Assignment Key

1) (v)	2) (i)	3) (v)	4) (ii)	5) (iii)	6) (iii)
7) (i)	8) (ii)	9) (v)	10) (iv)	11) (ii)	12) (iv)
13) (i)	14) (v)	15) (iii)	16) (iii)	17) (iv)	18) (iii)
19) (ii)	20) (iii)	21) (ii)	22) (v)	23) (iv)	24) (v)
25) (v)					